

# EV12-20

12V20Ah / 10hr rate



## Introduction

**Generagy EV AGM Series** is designed for tough applications and repeated deep discharging. It is superior with the long cycle life, large current discharge capability, high reliability and safety. The range is the definitive choice for golf cart, electric medical equipment, automated guided vehicles (AGV), aerial lifts, floor cleaning equipment, robotics applications.

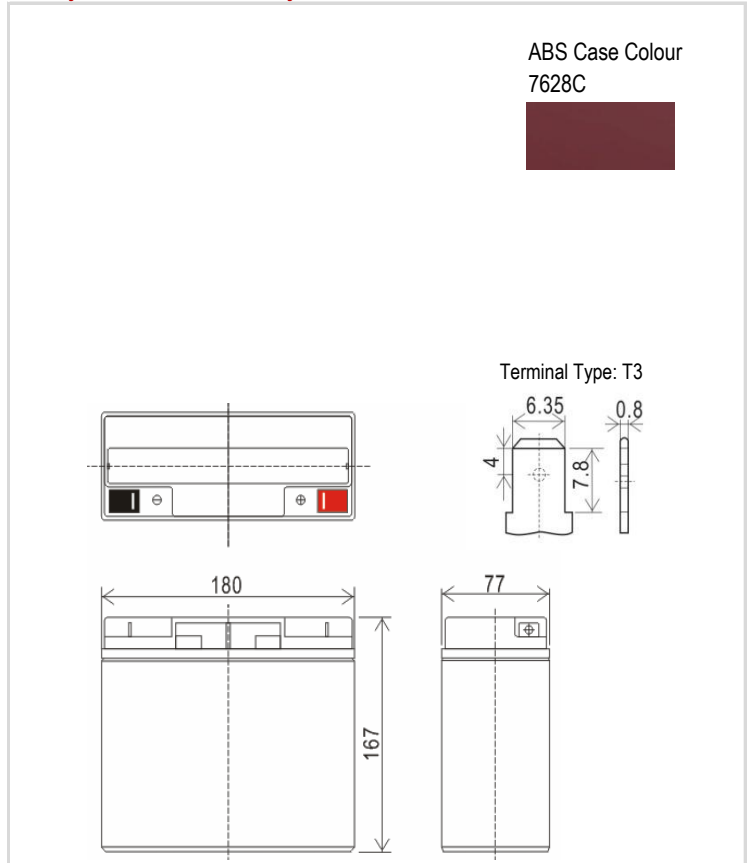
## Battery Features

- Extra long cycle life and resistance to mechanical stress and the elements all in one battery.
- Maintenance-free
- Very high purity lead (purity rate 99.994%)
- Traction heavy duty grid design gives consistent active material adhesion and corrosion resistance.
- Fully tank formed plates for evenly formed and capacity matched plates.
- Low impurity electrolyte
- Recognized gas recombination efficiency greater than 99.9%
- Flame arresting pressure regulated safety sealing valves for safety.
- Low self-discharge
- Classified as non-spillable and not restricted for transportation by
  - > Air (IATA/ICAO provision 67)
  - > Surface (DOT-CFR-HMR49)
  - > Water (per IMDG amendment 27)

## Electrical Specification

Design Life Cycles @ 80% D.O.D. (25°C) .....	450 Cycles
Nominal Capacity @ 25°C /77°F	
100 hour rate 0.24A to 1.75Vpc .....	24 Ah
10 hour rate 2 A to 1.75Vpc .....	20 Ah
5 hour rate 3.6 A to 1.75Vpc .....	18 Ah
3 hour rate 5.3 A to 1.70Vpc .....	16 Ah
1 hour rate 12 A to 1.60Vpc .....	12 Ah
Minutes of Discharge	
25A to 10.5V .....	32
56A to 10.2V .....	12.5
Cranking Amps	
0°C /32°F .....	105
-18°C /0°F .....	85
Internal Resistance	
(Fully charged battery @ 25°C /77°F) .....	12 mΩ
Max. Discharge Current @ 25°C /77°F .....	180 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use .....	14.7 ~ 14.9V
Max. Current .....	5.0 A
Standby Use .....	13.6 - 13.8V
Operating Temperature Range .....	-20 ~ 60°C
<i>Notes: battery voltage must be adjusted according to temperature. Please refer to our recommendation.</i>	
Self-Discharge	
3% of capacity declined per month @ 25°C (77°F).	

## Battery Picture & Terminal Layout



## Dimension & Weight

Length	Dimension (± 2mm)			Weight (± 2%)
	Width	Height	Total Height	
181 mm	77 mm	167 mm	167 mm	6.9 kg
7.1 inch	3.0 inch	6.6 inch	6.6 inch	15.2 lbs

## Typical Applications

- Golf Cart
- Tour Bus
- Electric Medical Equipments
- Aerial and Fork Lifts
- Golf Trolley
- Sweeper
- Floor Cleaning Machines
- Marine and RV

## Certificates

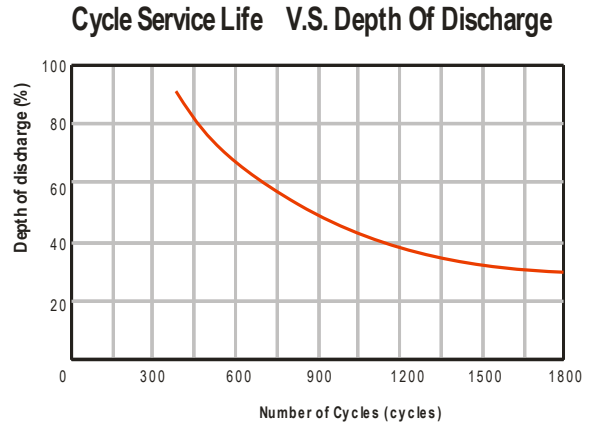
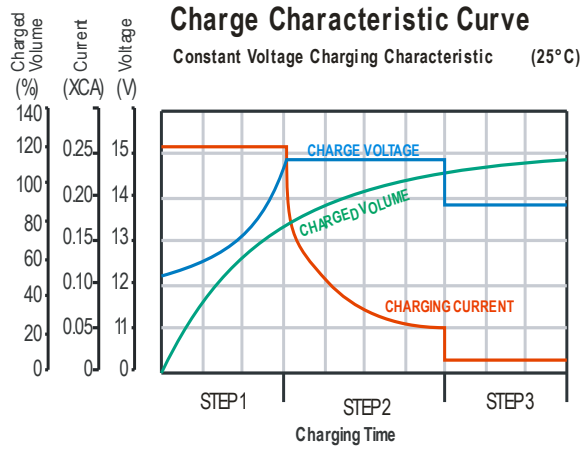


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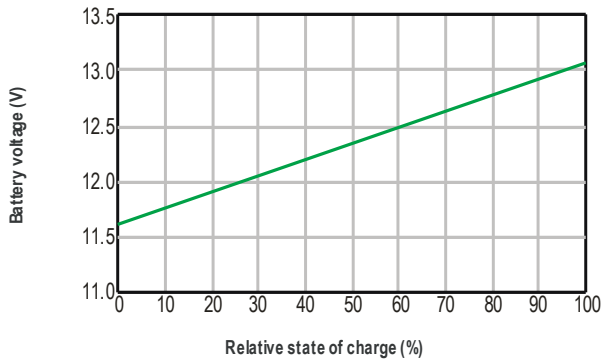
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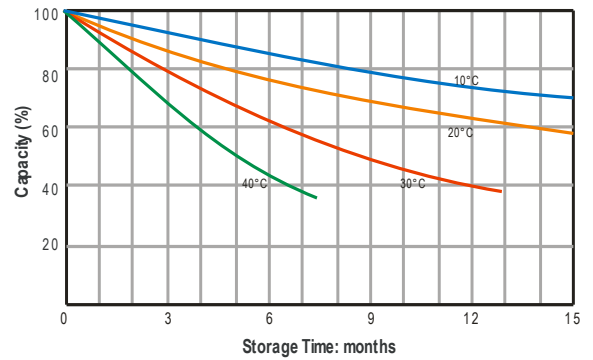
**Graphs**



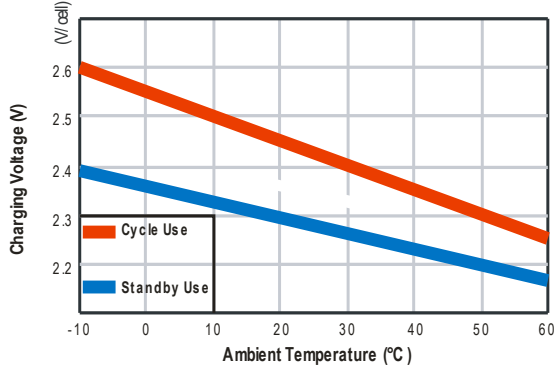
### OCV V.S. State of Charge (20°C)



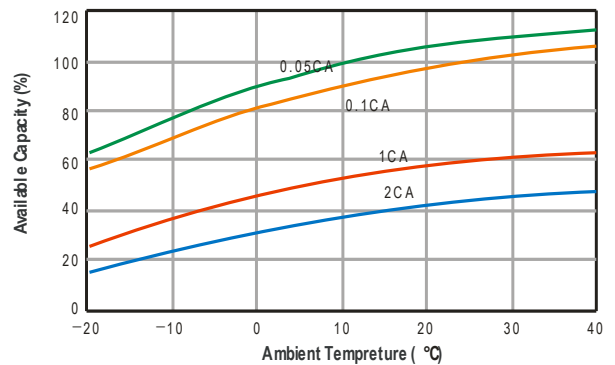
### Self-Discharge Characteristic



### Charging Voltage V.S. Temperature



### Temperature Effects On Capacity



Subject to revision without notice. Please contact our sales representatives for latest version.